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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/077,086 02/15/2002		Taro Suga	02090/TL	3499	
1933 7:	590 11/19/2003		EXAMINER		
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 767 THIRD AVENUE			VERBITSKY, GAIL KAPLAN		
25TH FLOOR			ART UNIT	PAPER NUMBER	
NEW YORK,	NY 10017-2023		2859		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Commons		Applica	ition No.	Applicant(s)				
		10/077,	,086	SUGA, TARO				
	Office Action Summary	Examin	er	Art Unit				
		Gail Ve	•	2859	I MW			
 Period for	The MAILING DATE of this communi Reply	cation appears on t	he cover sheet t	with the correspondence a	address			
THE M/ - Extension - Extension - If the period - If NO period - Failure - Any rep	RTENED STATUTORY PERIOD FO AILING DATE OF THIS COMMUNIO ons of time may be available under the provisions of (6) MONTHS from the mailing date of this commu- riod for reply specified above is less than thirty (30 priod for reply is specified above, the maximum sta- to reply within the set or extended period for reply y received by the Office later than three months after patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no a unication.) days, a reply within the si tutory period will apply and will, by statute, cause the a	event, however, may a tatutory minimum of th will expire SIX (6) MC	a reply be timely filed irty (30) days will be considered tim DNTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
1)⊠ R	esponsive to communication(s) file	d on <u>05 September</u>	<u>r 2003</u> .					
2a)⊠ T	This action is FINAL . 2b) This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositio	n of Claims							
4a 5)□ C 6)⊠ C 7)□ C	Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. (i) Claim(s) is/are allowed. (i) Claim(s) 1-12 is/are rejected. (ii) Claim(s) is/are objected to. (iii) Claim(s) are subject to restriction and/or election requirement.							
Applicatio	n Papers		·					
10)□ Th A R	ne specification is objected to by the ne drawing(s) filed on is/are: pplicant may not request that any objected to a specific process.	a) accepted or I tion to the drawing(s) the correction is requ) be held in abeya uired if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37	` '			
, <u> </u>	ne oath or declaration is objected to	by the Examiner.	Note the attache	ed Office Action or form F	PTO-152.			
	der 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.								
Attachment(s)							
2) 🔲 Notice o	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PT tion Disclosure Statement(s) (PTO-1449) Pa			Summary (PTO-413) Paper N Informal Patent Application (P				

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DETAILED ACTION

Claim Objections

1. Claim 9 is objected to because of the following informalities: Claim 9 is substantially redundant to claim 1. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 9-12 are finally rejected under 35 U.S.C. 102(b) as being anticipated by Kleven (U.S.5003295).

Kleven discloses in Fig. 1 all the subject matter claimed by applicant. Kleven discloses a temperature measuring device (probe 10 and thermal member 30) measuring a temperature of the airflow flowing over the surfaces of the device (casing/strut 14) and provides an output (col. 3, lines 18-20) (total) temperature of the airflow. The device's leading edge has an inclined (tapered) shape facing airflow such that an ice that can deposit on the leading edge is being heated/ deiced by heaters 44 and melted (detached at a stage of growing) before becoming dangerous for an aircraft (being blown into an engine).

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-8 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Kleven.

Kleven discloses the device as stated above in paragraph 3.

Kleven does not teach the particular angle of inclination as claimed in claims 1-2, 5-8, and the particular width of the leading edge, as stated in claims 3-4.

With respect to claims 2, 5-8: the particular angle of inclination of the leading edge, i.e., less than or equal 9° and less than 60°, absent any criticality, is only considered to be the "optimum" value of the angle of inclination disclosed by Kleven that a person having ordinary skill in the art would have been able to determine using routine experimentation based, among other things, on the desired shape of the device, etc. *In re Boesch*, 205 USPQ 215 (CCPA 1980). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to make the angle of inclination of the surface of the device disclosed by Kleven, less or equal 9 and less than 60 degrees, so as to make the device as compact as possible, so as to minimize the manufacturing costs.

With respect to claims 3-4: the particular width (size) of the leading edge section, i.e., less than or equal 1 mm, absent any criticality, is only considered to be the "optimum" value of the width of the leading edge section disclosed by Kleven that a

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person having ordinary skill in the art would have been able to determine using routine experimentation based, among other things, on the desired shape and size of the device, etc. *In re Boesch*, 205 USPQ 215 (CCPA 1980). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to make the width of the leading edge of the device disclosed by Kleven, less than 1 mm, so as to make the device as compact as possible, so as to minimize the manufacturing costs.

Response to Arguments

6. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection necessitated by present amendment and Applicant's statement that <u>JP 11095563</u> is the same inventor (as stated by applicant in page 7 of the present amendment). Affidavit is required.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 8. The prior art made of record and not relied upon considered pertinent to applicant's disclosure.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Verbitsky who can be reached at (703) 306-5473 Monday through Friday 7:30 to 4:00 ET.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-5473.

GKV

Gail Verbitsky

Patent Examiner, TC 2800

10 November 2003

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